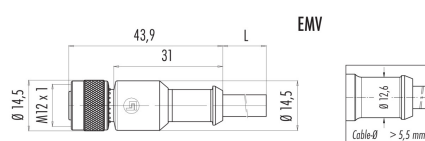


|                     |  |
|---------------------|--|
| Product description | M12-A female cable connector, Contacts: 3, shielded, moulded cable, IP67, UL listed, PUR black, 3 x 0.34 mm <sup>2</sup> |
| Area                | M12-A series 763   |
| Part no.            | 77 3530 0000 50703-0200  |

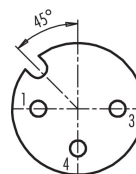
## Illustration



## Scale drawing



## Contact arrangement (Plug-in side)



- 1 brown
- 2 not assembled
- 3 blue
- 4 black

Shielded versions: shield = housing

## Technical data

### General features

|                           |  |
|---------------------------|--|
| Part no.                  | 77 3530 0000 50703-0200<br>Alternative part no.: 79 3530 32 04   |
| Notice                    | Please note that, due to the change from the old to the new order number, there may be deviations in the technical specifications. For questions about product details, please use the 'Contact Customer Service' form on the right. |
| Connector design          | female cable connector   |
| Cable length              | 2 m  |
| Version                   | connector female straight  |
| Connector locking system  | screw  |
| Termination               | moulded cable  |
| Degree of protection      | IP67   |
| Cross-sectional area      | 0.34 mm <sup>2</sup> / AWG 22  |
| Temperature range from/to | -25 °C / 90 °C   |
| Mechanical operation      | > 100 Mating cycles  |
| Weight (g)                | 179  |
| Customs tariff number     | 85444290   |

### Electrical parameters

|                       |                      |
|-----------------------|----------------------|
| Rated voltage         | 250 V                |
| Rated impulse voltage | 2500 V               |
| Rated current (40 °C) | 4 A                  |
| Insulation resistance | ≥ 10 <sup>10</sup> Ω |
| Pollution degree      | 3                    |
| Overvoltage category  | II                   |

# Product data sheet

## Automation technology - sensors and actuators



|                     |  |
|---------------------|--|
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|                           |                             |
|---------------------------|-----------------------------|
| Insulating material group | II                          |
| EMC compliance            | shielded                    |
| Shield connection         | Shield on the threaded ring |

### Material

|                       |                                      |
|-----------------------|--------------------------------------|
| Housing material      | PUR                                  |
| Contact body material | PUR                                  |
| Contact material      | CuSn (bronze)                        |
| Contact plating       | Au (gold)                            |
| Locking material      | CuZn (Brass nickel plated)           |
| REACH SVHC            | CAS 7439-92-1 (Lead)                 |
| SCIP number           | 35097a28-2a57-4e37-bda5-6d3b3cffc3a2 |

### Authorization/approvals

|           |           |
|-----------|-----------|
| Approvals | UL listed |
|-----------|-----------|

### Declarations of conformity

|                       |  |
|-----------------------|--|
| Low Voltage Directive | 2014/35/EU (EN 60529:1991;EN 60204-1:2018) |
| RoHS Directive        | 2011/65/EU (EN 50581:2012)                 |

### Cable data - Structure of the cable

|                        |                          |
|------------------------|--------------------------|
| Cable diameter         | 4.6 mm                   |
| Cross section          | 3 x 0.34 mm <sup>2</sup> |
| Sheath material        | PUR                      |
| Single-lead insulation | PP9Y halogen-free        |
| Single-lead structure  | 42x0,1 mm                |
| Cable color            | black                    |

### Cable data - Electrical properties

|                      |                |
|----------------------|----------------|
| Conductor resistance | 60 Ω/Km (20°C) |
|----------------------|----------------|

### Cable data - Mechanical properties

|                              |  |
|------------------------------|--|
| Bending radius, fixed cable  | ≥ 5 x Ø                                |
| Bending radius, moving cable | ≥ 10 x Ø                               |
| Bending cycles               | >2 million                             |
| Permitted acceleration       | 5 m/s <sup>2</sup> +1 m/s <sup>2</sup> |
| Travel distance, horizontal  | 5 m/s <sup>2</sup> -> 5 m              |
| Travel distance, vertical    | 5 m/s <sup>2</sup> -> 2 m              |



|                     |  |
|---------------------|--|
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|              |                                       |
|--------------|---------------------------------------|
| Travel speed | ≤ 200 m/min (5 m horizontal distance) |
|--------------|---------------------------------------|

#### Cable data - Thermal properties

|   |                |
|---|----------------|
| Temperature range cable in move from/to | -25 °C / 90 °C |
| Temperature range cable fixed from/to   | -50 °C / 90 °C |

#### Cable data - Other features

|              |     |
|--------------|-----|
| Halogen free | Yes |
|--------------|-----|

|                     |  |
|---------------------|--|
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| Area                | <b>M12-A series 763</b>  |
| Part no.            | <b>77 3530 0000 50703-0200</b>   |

## Security notices

The connector must not be plugged or unplugged under load. Non-observance and improper use can result in personal injury.

The connectors have been developed for applications in plant engineering, control and electrical equipment construction. The user is responsible for checking whether the connectors can also be used in other areas of application.

The user must take suitable safety precautions to ensure that the connector cannot be accidentally disconnected.

Plug connectors with enclosure protection IP 67 and IP 68 are not suitable for use under water. When used outdoors, the plug connectors must be protected separately against corrosion. For further information on the IP protection classes, please refer to the "Technical Information" download centre.

To lock the cable connector with the device connector, the threaded ring is tightened "hand-tight" (approx. 60 cNm).